

SAMPLE PROCESSING DEVICES AND CARRIERS**Abstract of the Disclosure**

Methods and devices for thermal processing of multiple samples at the
 5 same time are disclosed. The assemblies include carriers and sample processing
 devices with process arrays that include conduits useful in distributing sample
 materials to a group pf process chambers located in fluid communication with
 the main conduits. The sample processing devices may include one or more of
 the following features in various combinations: deformable seals, process
 10 chambers connected to the main conduit by feeder conduits exiting the main
 conduit at offset locations, U-shaped loading chambers, and a combination of
 melt bonded and adhesively bonded areas. The carriers may be used to apply
 selective compression to the sample processing devices.

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